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Substitute for form 1449A/PTO				Application Number	10/046,864
				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	Lin, Sun J.
Sheet	1	of	7	Attorney Docket Number	SPLX.P0052

U.S. PATENT DOCUMENTS						
Examiner* Initials	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	2001/0009 031	A1	07-19-2001	Nitta et al.	
	2.	2002/0182 844	A1	12-05-2002	Igarashi et al.	
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	4.	5,267,176		11-30-1993	Antreich et al.	
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	20.	6,209,123	B1	03-27-2001	Maziasz et al.	

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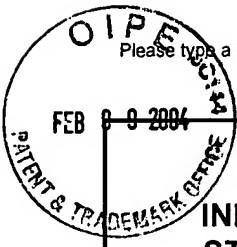
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FOREIGN PATENT DOCUMENTS							
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		Office ³	Number ⁴	Kind Cod (if known)			
	42.	JP	2000-82743	A	Igarashi et al.	03-21-2000	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.
	43.	JP	H03-173471	A	Tawada et al.	07-26-1991	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.
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				Group Art Unit	2825
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						translation of Abstract; and with English translation of the application.

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NON PATENT LITERATURE DOCUMENTS			
Examiner* Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
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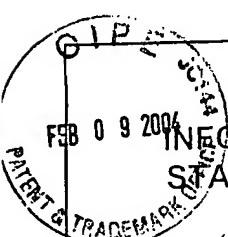
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Sheet	1	of	1	Attorney Docket Number	SPLX.P0052

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No. ¹	U.S. Patent Document Number	U.S. Patent Document Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	2001/0003843	A1	Scepanovic et al.	06-14-01	
	2.	4,615,011		Linsker	09-30-86	
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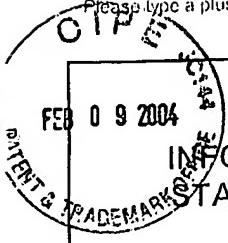
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	2	of	2	Application Number	10/046,864
				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	SPLX.P0052

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 3				Application Number	10/046,864
				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	SPLX.P0052

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		Office ³	Number ⁴	Kind Code (if known) ⁵			
	55.	JP	64-15947		Ouchi	01-19-89	
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				Application Number	10/046,864
				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	
				Examiner Name	
Sheet	4	of	4	Attorney Docket Number	SPLX.P0052

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
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				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	
				Examiner Name	
Sheet	5	of	5	Attorney Docket Number	SPLX.P0052

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Substitute for form 1449A/PTO				Application Number	10/046,864
				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	SPLX.P0052

RELATED U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document Number	Date of filing MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Related Application Data
	1.	2003/0079193	12/07/2001	Steven Teig et al.	Parent application; present application is a continuation of 2003/0079193.
	2.	2003/0018947	12/07/2001	Steven Teig et al.	Application filed on the same day as the parent application 2003/0079193, with the same specification as the present application except for summary and abstract.
	3.	2002/0147958	10/19/2001	Steven Teig et al.	Parent application per the preliminary amendment dated 2/19/03.
	4.	2003/0063614	01/04/2002	Steven Teig et al.	Application with some of the same parent provisional applications and with the same specification as the present application except for summary and abstract.
	5.	2003/0064559	01/04/2002	Steven Teig et al.	Application with some of the same parent provisional applications and with the same specification as the present application except for summary and abstract.
	6.	2003/0063568	01/04/2002	Steven Teig et al.	Application with some of the same parent provisional applications and with the same specification as the present application except for summary and abstract.
	7.	2003/0101428	01/05/2002	Steven Teig et al.	Continuation of 2003/0079193.
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	14.	2003/0066043	01/13/2002	Steven Teig et al.	Continuation of 2003/0088844 per preliminary amendment.

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet	2	of	2	Application Number	10/046,864
				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	SPLX.P0052

RELATED U.S. PATENT DOCUMENTS

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19.	2002/0133798	12/06/2000	Steven Teig et al.	Application regarding related placement technology
20.	2002/0100007	12/06/2000	Steven Teig et al.	Parent application; present application is a CIP of 2002/0100007.
21.	2002/0073390	12/13/2000	Steven Teig et al.	Application regarding related placement technology
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32.	2003/0088841	12/23/2002	Steven Teig et al.	Application regarding related placement technology.

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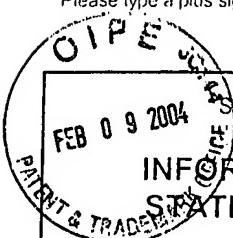
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Sheet	1	of	1	Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	SPLX.P0052

U.S. PATENT DOCUMENTS

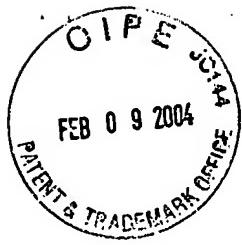
Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Related Application Data
		Number	Date of Publication MM-DD-YYYY		
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	12.	2003/0088841 S/N 10/329,241	12-23-2002	Steven Teig et al.	Previously specified
	13.	2003/0088845 S/N 10/047,978	01-13-2002	Steven Teig et al.	Continuation of the parent application (2003/0079193) of the present application.

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¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ² Applicant's unique citation designation number(optional). ³ See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷ Applicant is to place a check mark here if English language Translation is attached.

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Serial/Patent No.: 10/046,864
Filing Date: 1/13/02
Atty Docket: SPLX.P0052
Applicant(s): Steven Teig

Att'y/Secty: MA/ka
Date Mailed: 9/26/2003

TITLE: Method and Apparatus for Pre-Computing Attributes of Routes

The following has been received by the U.S. Patent & Trademark Office on the date stamped hereon:

1. Transmittal Form
2. Information Disclosure Statement (3 pages)
3. Form PTO-1449 (1 page)
4. (13) cited references





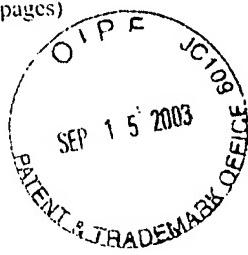
Serial/Patent No.: 10/046,864
Filing Date: 1/13/02
Atty Docket: SPLX.P0052
Applicant(s): Steven Teig

Atty/Secty: MA/ka
Date Mailed: 9/12/2003

TITLE: Method and Apparatus for Pre-Computing Attributes of Routes

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3. Form PTO-1449 (2 pages)
4. (32) cited references





Serial/Patent No.: 10/046,864
Filing Date: 1/13/02
Atty Docket: SPLX.P0052
Applicant(s): Steven Teig

Atty/Secty: MA/sl
Date Mailed: 4/23/2003

TITLE: Method and Apparatus for Pre-Computing Attributes of Routes

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